15 FEB 77

MEMORANDUM FOR: Chief, Special Projects Staff, ODP

FROM : [redacted] STATINTL
Chief, Real Estate and Construction Division, OL

SUBJECT : Project SAFE Facilities Planning

REFERENCE : MFR dtd 8 Feb 77, Subj: Project SAFE Communications Support System - Data Grid

1. The scope of work describing the SAFE facility and supporting utilities was sent to the General Services Administration (GSA) on 30 December 1976. GSA is currently preparing a budgetary estimate on which to base their firm fixed price including GSA fees and charges for Architect-Engineer (A&E) services. GSA is proceeding with plans for a contract design effort and their preliminary plans specify an A&E contract award on 18 May 1977, design completion by 19 September 1977, construction contract award on 3 January 1978, and Phase I completion by 1 July 1978.

2. As you will recall, the initial SAFE funding transaction ($50,000 work authorization to GSA for A&E services) was handled on an expedited basis in order to meet the GSA requested 1 January 1977 commitment date. Subsequently, in addition to the usual OL expenditure approval routing through Chief, RECD/OL, to the Director of Logistics, the following additional routing has been suggested:

a. Chief, SPS/ODP
Room 402 Ames Building

b. Director, OCR
Room 2E-60 Headquarters

c. Chief, Plans and Programs Staff, DDI
Room 2E-28 Headquarters

d. B&F/DDI
Room 2F-28 Headquarters

Such an approval cycle for a few large transactions per fiscal year would be appropriate; however, on the basis of the ongoing Office of Data Processing (ODP) expansion, numerous work authorizations and purchase orders, many for relatively small amounts, will be issued.

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Such a three office approval, each with its attendant staffing requirement, rapidly becomes unwieldy and time consuming. As an alternative it is suggested that a funding plan by fiscal year be approved and funding be transferred to the Office of Logistics for accounting and management by fiscal year (similar to the funding transfer to support the ongoing ODP expansion program).

3. To date, all major facility and electrical utility subsystems, such as the 2500 kW generator and both 60 and 415 Hz Uninterruptible Power Supply (UPS) systems have been planned for based on preliminary SAFE requirements. It is requested that the following questions regarding major requirements or premises be answered:

a. Must the initial increment of 10,000 sq. ft. of environmentally-controlled computer center and office space be available by 1 July 1978?

b. Must the SAFE system be electrically powered through a UPS system to filter and regulate power?

c. Must this system be operational 24 hours per day, 7 days per week, and be backed up with emergency electrical power generators in addition to the 15 minutes provided by the UPS system batteries?

d. Must the SAFE user terminal area consoles likewise be on emergency electrical power (not UPS power) or are 5 to 10 minute losses of power acceptable in the SAFE operational concept? Will stored information be lost with loss of console power?

e. When can the final increment of the SAFE facility be planned with certainty?

f. What is the preliminary forecast of the number of SAFE users, and the relative locations? Within the 5-year plan are there to be any non-Agency buildings served?

4. In terms of total electrical power, Project SAFE will be constrained to 2400 kVA. This is the maximum power available, anticipating that UPS systems will be required, when C Vault is expanded. This maximum capacity will be reached with the planned addition of the 3000 kVA transformers and will bring the total electrical power demands of the

vault to the maximum capacity of the existing electrical feeders. This maximum 2400 kVA delivered to the SAFE system would provide a mix such as:

1500 kVA 60 Hz UPS power to center.
350 kVA 415 Hz UPS power to center.
100 kVA 60 Hz power to center non-UPS emergency requirements.
450 kVA 60 Hz power to user areas in northeast quadrant.

(Note: An additional 450 kVA of 60 Hz power would be available from the D Vault to serve users in the northwest quadrant.

To date, available information indicates that the majority of SAFE users would be on the northside of the Headquarters Building. Please verify this general requirement as electrical power demands will reach capacity on the southside of the building upon completion of the OOP expansion (allowing for some planned growth of the Office of Communication facilities).

5. Anticipating UPS power will be required, it is requested that total electrical power demands be reviewed to define:

a. Total computer center power required.

b. 60 Hz UPS power required.

c. 415 Hz UPS power required.

d. Anticipated user area loads including SAFE consoles, peripherals, etc.

While the UPS systems are built-up incrementally of nominal rated power modules, the total mix of required power must be 2400 kVA or less without additional major expansion of the Headquarters electrical power system. Such expansions will be multimillion dollar projects requiring upwards of 3-5 years to budget, plan, and construct.

6. Beyond the definition of the electrical power requirements within the SAFE user terminal areas, what types of peripheral equipments are anticipated? What are generalities as to facility requirements (additional space; users relocation or groupings; security or safety modifications, etc.)? Without sufficient detail, no estimate of renovation costs have been included in our cost projections to date. However, even with nominal facility costs per console, the forecasted [redacted] users would require substantial funding (e.g. [redacted]). While it is recognized many of these answers will be generated by the working groups (OOP, OL, OC, OS, etc.) and ongoing systems

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engineering, this request is primarily directed to draw attention to funding needs for user area requirements in FY-79, -80, and -81 (anticipated expansion period for SAFE users).

7. Per the referent memorandum regarding the Data Grid, please verify that current planning anticipates a turn-key communication system engineering contract (i.e. single contract responsibility for system engineering, installation design, construction, and system testing). It is our understanding that the Data Grid will be included as part of the SAFE Communication System installation and will be administered by SAFE/Communications personnel and funded using SAFE monies other than the $3,500,000 for facilities. However, modification to the Headquarters Building to accept the installation of the Data Grid (such as riser or electrical closet modifications) will be completed using SAFE facilities funds by RECD/OL. As currently understood, the Project SAFE plan calls for a system development contract to be awarded in February-March 1978. The installation of this system is scheduled to start in October 1978 and be completed by 1 May 1979. It is presumed that this 8-month period would correspond to the major vertical and horizontal "signal mains" and that subsequently in the 1979-1981 period, the individual users' lateral signal runs would be installed. This period of construction may be optimistic depending upon the extent of coverage (i.e., northside of the Headquarters Building only rather than the entire building) based on recent experience with major Data Grid installations. It is assumed that both RECD and OS personnel will play a direct role in the review of design and specification of the system before installation and inspection following construction.

8. It is acknowledged that much of the information referred to above is not available at this time. What must be recognized is that many aspects of a project of this size are lengthy processes that demand concurrent action in order to realize anything near an acceptable completion date. Maximum allowances in every case will lead to an overbuilt system, but reasonable assumptions will prove invaluable so long as enough flexibility for eventual fine tuning is maintained.

STATINTL 9. My staff and I look forward to working with you. For further information regarding this memorandum, please contact Mr. [redacted] OL Project SAFE Coordinator [redacted] STATOTHR

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Att:
Reference

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